



Docket No.: 13156-00051-US1  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Marco Bosch et al.

Application No.: 10/581,311

Confirmation No.: N/A

Filed: June 2, 2006

Art Unit: N/A

For: PENTASIL-STRUCTURE ZEOLITHIC  
MATERIAL THE PRODUCTION AND USE  
THEREOF

Examiner: Not Yet Assigned

**INFORMATION DISCLOSURE STATEMENT (IDS)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed within three months of the U.S. filing date (37 CFR 1.97(b)(1)).

Applicant has not submitted copies of each cited U.S. patent and U.S. patent application as required by 37 CFR 1.98(a)(2)(i), amended October 2004, as the U.S. Patent and Trademark Office has waived this requirement for all U.S. patent applications. Applicant submits herewith copies of foreign and non-patents in accordance with 37 CFR 1.98(a)(2).

Citation AA is the English counterpart to citation BH. Citations AB, AC, AD, AE are English counterparts to citation BF. Citations AF and AG are English counterparts to citation BD. Citations AH, AI, and AJ are English counterparts to citation BC. Citations AK and AL are English counterparts to citation BB. Citation AM is the English counterpart to citation BA.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 03-2775, under Order No. 13156-00051-US1.

Dated: 7-10-06

Respectfully submitted,

By

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PTO/SB/08a/b (07-05)  
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Substitute for form 1449A/B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	10/581,311
				Filing Date	June 2, 2006
				First Named Inventor	Marco Bosch
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	1	of	2	Attorney Docket Number	13156-00051-US1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA*	US-6,627,756-B1	09-30-2003	Riechers et al.	
	AB*	US-20040152583-A1	08-05-2004	Grosch et al.	
	AC*	US-20020082159-A1	06-27-2002	Grosch et al.	
	AD*	US-6,710,002-B2	03-23-2004	Grosch et al.	
	AE*	US-6,380,119-B1	04-30-2002	Grosch et al.	
	AF*	US-20040014591-A1	01-22-2004	Muller et al.	
	AG*	US-6,967,181-B2	11-22-2005	Muller et al.	
	AH*	US-2003/0139598	07-24-2003	Frauenkron et al.	
	AI*	US-6,562,971-B2	05-13-2003	Frauenkron et al.	
	AJ*	US-2002/0107394	08-08-2002	Frauenkron et al.	
	AK*	US-6,958,397-B2	10-25-2005	Frauenkron et al.	
	AL*	US-2004/0236106-A1	11-25-2004	Frauenkron et al.	
	AM*	US-6,555,688	04-29-2003	Klockemann et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
	BA	WO-01/02404-A2-A3	01-11-2001	Performance Chemicals Handels GmbH		
	BB	WO-03/004499-A1	01-16-2003	BASF Aktiengesellschaft		
	BC	EP-1 215 211-A1	06-19-2002	BASF Aktiengesellschaft		
	BD	DE-102 32 406-A1	01-29-2004	BASF AG		
	BE	WO-97/03019	01-30-1997	Exxon Chemical Patents Inc		
	BF	WO-98/55228	12-10-1998	BASF Aktiengesellschaft		
	BG	DE-197 23 949-A1	12-10-1998	BASF Ag		
	BH	DE-199 33 850-A1	01-25-2001	BASF AG		

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those application(s) which are marked with an asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author ( in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	CA	G.T. Kokotailo et al, 1978. "Synthesis and structure of synthetic zeolite ZSM-11," <i>Nature</i> Vol. 275 September 14, 1978; pgs 119-120.	
	CB	Kokotailo et al., 1978. "Structure of synthetic zeolite ZSM-5" <i>Nature</i> vol. 272, March 30 pgs 437-438.	
	CC	Jacobs et al., 1987. " Chapter I: Synthesis of ZSM-5 Zeolites in the Presence of Tetrapropylammonium Ions" <i>Synthesis of High-Silica Aluminosilicate Zeolites, Studies in Surface Science and Catalysis</i> Vol. 33, Elsevier, Amsterdam 1987, 47-111.	

Examiner Signature	Date Considered	
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		Examiner Name	Not Yet Assigned		
Sheet	2	of	2	Attorney Docket Number	13156-00051-US1

CD	Cundy et al, 1993. "Crystallisation of Zeolitic Molecular Sieves: Direct Measurements of the Growth Behaviour of Single Crystals as a Function of Synthesis Conditions." <i>Faraday Discuss</i> 95, pgs 235-252.
CE	A.E. Persson et al, 1995. "Synthesis of stable suspensions of discrete colloidal zeolite (Na, TPA) ZSM-5 crystals" <i>Zeolites</i> 15: 611-619.
CF	Reding et al, 2003. "Comparing synthesis routes to nano-crystalline zeolite ZSM-5" <i>Microporous and Mesoporous Materials</i> , vol 57, No. 1,2, January 83-92.
CG	Mostowicz et al., 1995. "Factors Influencing the Crystal Morphology of ZSM-5 Type Zeolites" <i>Zeolites</i> , pgs 65-72.
CH	Ch Baerlocher et al., 2001. <i>Atlas of Zeolite Structure Types</i> , Elsevier, 5th Edition, Amsterdam 2001, pages 184-185.
CI	Perego et al, 1984. "Ordered and Disordered Structures in Borosilicates with a Pentasil-Type Framework." <i>J. Appl. Cryst.</i> vol. 17, pgs 403-410.
CJ	R. Van Grieken et al., 2000. "Anomalous crystallization mechanism in the synthesis of nanocrystalline ZSM-5" <i>Microporous and Mesoporous Materials</i> vol. 39, pgs 135-147.
CK	"Catalog of Disorder in Zeolite Frameworks" <a href="http://www.iza-structure.org/databases/">http://www.iza-structure.org/databases/</a> H. Gies and H. van Koningsveld. Published on behalf of the Structure Commission of the International Zeolite Association.

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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